

**Invited Session on “Sustainable Operations & Supply Chain Management”  
for IFAC MIM 2019**

Invited session identification code frc16  
IFAC MIM 2019, August 28-30, 2019, Berlin, Germany

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**Session Chairs:**

- Prof. Dr. Marcus Brandenburg, Flensburg University of Applied Sciences, Germany
- Dr. Christoph Jansen, Flensburg University of Applied Sciences, Germany
- Prof. Dr. Nelly Oelze, Flensburg University of Applied Sciences, Germany

**Session purpose:**

Sustainability has become a key factor in operations and supply chain management (OSCM). Recent studies have shown that failure to manage supply chains responsibly can negatively affect firms' reputation and financial performance. Due to this, the triple bottom line (TBL) of sustainability has to be taken into account when analyzing and improving operations and related managerial decision-making must not omit environmental and social criteria (Sarkis and Zhu, 2018; Sodhi and Tang, 2018). Consequently, the complexity of related tasks has grown considerably and implementing sustainable policies in supply chains is a significant challenge for businesses (Oelze et al., 2016; Gouda and Saranga, 2018).

Stimulated by these circumstances, research on sustainable OSCM has become highly relevant as indicated by a growing number of formal models (Brandenburg et al., 2014), reference frames (Ansari and Kant, 2017) and empirical studies (Meixell and Luoma, 2015; Geng et al., 2017). However, the scientific area still emerges and various directions offer potential for future research.

This Invited Session calls for research contributions that elaborate on sustainable OSCM. Theoretical contributions that propose mathematical approaches or conceptual frameworks that model the complex interplay of factors in sustainable OSCM are highly welcome. In addition, empirical studies that substantiate existing or reveal new theoretical insights are appreciated as well as practitioner reports that illustrate the application of best practices for sustainable OSCM.

**Session topics:**

The session chairs invite researchers from academia, decision-makers from industry and policy-makers from government to contribute theoretical and applied research papers in areas including but not limited to the following topics:

- Decision support for supply chain sustainability in presence of risk and uncertainty.
- Measuring and managing sustainability performance in the supply chain.
- Identification and implementation of best practices for sustainable OSCM.
- The interplay of decision-makers, stakeholders and shareholders in sustainable supply chains.
- Sustainable OSCM in specific application contexts or industry sectors.
- Lean and green management of operations and supply chains.

**Submission:**

For author guidelines, please refer to [www.ifac-control.org](http://www.ifac-control.org). All papers must be submitted electronically using Symposium Manuscript Management System (CMMS). All papers must be prepared in a two-column format in accordance with the IFAC manuscript style. Please use the official IFAC instructions and template to prepare your contribution as full-length draft paper and submit it online by December 15, 2018. Submission details are available on the symposium website. All submissions must be written in English. All papers that conform to submission guidelines will be peer-reviewed by IPC members. The corresponding author submits the paper online (pdf format) as an **invited session paper**. Submission as an invited paper requires the **invited session code frc16**. Several international journals are associated with the MIM 2019 for publication of special issues.

**Submission:**

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December 15, 2018	Deadline for the submission
February 20, 2019	Notification of acceptance/rejection
March 15, 2019	Deadline for the final submission

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**References:**

Ansari ZN, Kant R (2017): Exploring the framework development status for sustainability in supply chain management: A systematic literature synthesis and future research directions. *Business Strategy and the Environment* 26: 873-892.

Brandenburg M, Govindan K, Sarkis J, Seuring S (2014): Quantitative models for sustainable supply chain management: Developments and directions. *European Journal of Operational Research* 233: 299-312.

Geng R, Mansouri SA, Aktas E (2017): The relationship between green supply chain management and performance: A meta-analysis of empirical evidences in Asian emerging economies. *International Journal of Production Economics* 183: 245-258.

Gouda SK, Saranga H (2018): Sustainable supply chains for supply chain sustainability: impact of sustainability efforts on supply chain risk. *International Journal of Production Research*, DOI: 10.1080/00207543.2018.1456695.

Meixell MJ, Luoma P (2015): Stakeholder pressure in sustainable supply chain management: A systematic review. *International Journal of Physical Distribution & Logistics Management* 45: 69-89.

Oelze N, Hojmosse SU, Habisch A, Millington A (2016): Sustainable development in supply chain management: The role of organizational learning for policy implementation. *Business Strategy and the Environment* 25: 241-260.

Sarkis J, Zhu Q (2018): Environmental sustainability and production: taking the road less travelled. *International Journal of Production Research* 56: 734-759.

Sodhi MS, Tang CS (2018): Corporate social sustainability in supply chains: a thematic analysis of the literature. *International Journal of Production Research* 56: 882-901.